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MAYOR



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April 29, 2020

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Re: DOJ Case No. 90-5-1-1-09000
Submittal of Quarterly Progress Report

Dear Colleagues,

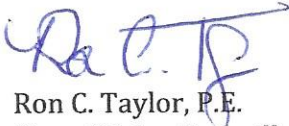
In accordance with the provisions of the Consent Decree, Section XIX (Reporting Requirements), Subsection A, herewith we are transmitting the Quarterly Progress Report which covers the period from January 1 through March 31, 2020.

A copy of each of this report is concurrently being placed in the Public Document Repository (PDR).

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering such information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

If you have any questions concerning this report, do not hesitate to contact me.

Sincerely,

A handwritten signature in blue ink, appearing to read "Ron C. Taylor".

Ron C. Taylor, P.E.

Clean Water Nashville Overflow Abatement Program Director

cc: Mr. Scott A. Potter, P.E., Director
Mr. David Tucker, Deputy Director
Mr. Cyrus Q. Toosi, P.E., Assistant Director / Chief Engineer, Engineering
Mr. Thomas G. Cross, Associate Director, Metropolitan Department of Law

**Metropolitan Government of Nashville and Davidson County
Department of Water and Sewerage Services**

Clean Water Nashville Overflow Abatement Program

**CONSENT DECREE
QUARTERLY PROGRESS REPORT**

January 1 through March 31, 2020

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering such information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.



Ron C. Taylor, P.E., Program Director



Date

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Section 1

Introduction

On March 12, 2009, the Metropolitan Government of Nashville and Davidson County, Tennessee (Metro), entered into a Consent Decree with the United States and the State of Tennessee. To fulfill the reporting requirements defined in Section XIX.A. of the Consent Decree, Metro has prepared this *Quarterly Progress Report*, which includes the following information:

1. Information on sanitary sewer overflows (SSOs) and dry-weather combined sewer system overflows (CSOs) occurring during the reporting period
2. A description of the work conducted during the reporting period to comply with the requirements of the Consent Decree
3. The anticipated work for the upcoming quarter to comply with the requirements of the Consent Decree
4. Any additional information necessary to demonstrate that Metro is adequately implementing the work

Work, as defined in the Consent Decree, includes all activities that Metro is required to perform under the Consent Decree. For the purposes of this *Quarterly Progress Report*, however, the focus will remain on current and upcoming work related to the *Corrective Action Plan/Engineering Report (CAP/ER)*, the *Long Term Control Plan (LTCP)*, and additional activities to address SSOs and CSOs.

1.1 Additional Programs

Several additional programs, listed below, were also required to be developed or implemented as part of the Consent Decree. Any modifications or updates to these programs will be identified in **Section 4** of this report.

- *Spill and Overflow Response Plan (Section VII.C.2)* – Metro continues to operate under the current Spill and Overflow Response Plan (SORP). A review of the SORP will be conducted annually with any proposed changes submitted to the U.S. Environmental Protection Agency (EPA) for review and approval by June 1 each year.
- *Inter-jurisdictional Agreement Program (Section VII.C.3)* – All required inter-jurisdictional agreements are in place, and Metro will continue to operate under these agreements, including monitoring peak flows received.
- *Capacity Assurance Plan (Section VII.C.4)* – The Capacity Assurance Plan will continue to be applied as a tracking/approval tool for new development/flow in the sanitary sewer system.
- *Pump Station Operation Plan for Power Outages (Section VII.C.5)* – All projects identified in the Pump Station Operation Plan for Power Outages were completed prior to the start of the reporting period.
- *Nine Minimum Controls Compliance Plan (Section VII.D.1)* – All elements of the Nine Minimum

Controls Compliance Plan (NMC) were completed in 2012.

- Supplemental Environmental Projects (Section VIII) – The Supplemental Environmental Projects (SEPs) required in the Consent Decree were completed in 2010.

1.2 Report Organization

This *Quarterly Progress Report* is organized as follows:

Section 1 – Introduction

Section 2 – Corrective Action Plan/Engineering Report

Section 3 – Long Term Control Plan

Section 4 – Additional Measures to Maintain Consent Decree Compliance

Section 5 – Quarterly SSO and Dry-Weather CSO Report

Section 2

Corrective Action Plan/Engineering Report

To address conditions causing overflows in their sanitary sewer system, Metro developed a CAP/ER that was submitted to EPA and the Tennessee Department of Environment and Conservation (TDEC) on September 11, 2011.

The CAP/ER development began with a characterization of Metro's sanitary sewer system through extensive monitoring and modeling to understand the existing system's limitations. The need for improvements to address both current and future sewer capacity needs was then assessed, and potential alternatives were evaluated to select efficient and cost effective solutions. These recommended projects, which include infrastructure rehabilitation, additional conveyance capacity, and storage of wet-weather flows, are presented in the CAP/ER.

Approval of the CAP/ER was granted by EPA on August 10, 2017, with TDEC copied on the approval. Since submittal of the CAP/ER in 2011, information from additional flow monitoring data collection, constructability reviews, and hydraulic analyses has resulted in adjustments to several CAP/ER projects, as well as the identification of additional projects to remediate SSOs. A summary of those changes was presented to EPA and TDEC in the *Addendum to the CAP/ER*, dated September 27, 2017.

Through ongoing efforts to maintain the system, Metro identified several overflow locations, outside of those identified in the CAP/ER, that warrant additional field investigations and/or improvements. As requested by TDEC in a letter dated July 15, 2019, Metro prepared *Addendum #2 to the CAP/ER*, which was submitted on August 30, 2019. That Addendum describes those overflow locations, summarizes actions taken, and presents Metro's plan for identifying and addressing conditions causing those overflows.

On February 18, 2020, Metro met with representatives from EPA, TDEC, the U.S. Department of Justice, and the Tennessee Attorney General's office to discuss compliance with the Consent Decree. Among other topics, EPA indicated that they were preparing comments on *Addendum #2 to the CAP/ER* and would be requesting a re-submittal. Additionally, EPA is reviewing the list of overflow locations for a possible expansion of the sites directly listed in the Consent Decree.

On-going CAP/ER projects are described in the following subsections, and a schedule illustrating current and upcoming work on CAP/ER projects is presented as Appendix A. Due to the on-going potential impacts of the COVID-19 epidemic, timelines for some projects may require adjustments. In an April 1, 2020, letter, Metro notified EPA and TDEC of the potential need for time extensions due to the force majeure event of the COVID-19 epidemic.

2.1 Completed CAP/ER Projects

The following projects, discussed in the CAP/ER, achieved substantial completion prior to the start of the reporting period:

- 28th Avenue Rehabilitation – Area 1 – Clifton Avenue
- Barker Road / Omohundro Equalization Storage Phase I

- Brick Church Pike Pipe Improvements
- Cowan / Riverside Rehabilitation – Area 1 – Jones Avenue
- Cowan / Riverside Rehabilitation – Area 2 – Dickerson Pike
- Cowan / Riverside Rehabilitation – Area 3 – West Trinity Lane
- Cowan / Riverside Rehabilitation – Area 4 – Pages Branch
- Davidson and Brook Hollow Sewer Improvements
- Dodson Chapel Equalization Tank and Wastewater Pumping Station Expansion
- Dodson Chapel Pipe Improvements
- Dry Creek Wastewater Treatment Plant Optimization
- Ewing Creek / Brick Church Equalization Facility
- Gibson Creek Rehabilitation – Area 1 – Dupont Avenue
- Hidden Acres Rehabilitation
- Highway 100 / Tyne Boulevard – Trimble Rehabilitation
- Holiday Travel Park Gravity Conversion
- Joelton Rehabilitation
- Lakewood Water and Sewer Replacement
- Langford Farms – Madison Heights Rehabilitation
- Loves Branch Rehabilitation
- Mill Creek 36-inch Trunk Sewer System Rehabilitation
- Mill Creek / Opryland Equalization Facility – Phase II
- Neely’s Bend Rehabilitation
- Rockwood Conveyance Improvements
- Shelby Park Rehabilitation – Area 1 – Virginia Avenue
- Shelby Park Rehabilitation – Area 2 – Norvel Avenue
- Shelby Park Rehabilitation – Area 3 – Greenland Avenue
- Shelby Park Rehabilitation – Area 4 – Brush Hill Road
- Shelby Park Rehabilitation – Area 5 – Cooper Lane
- Smith Springs Equalization Storage

- Smith Springs Rehabilitation – Area 1 – Priest Lake Meadows
- Smith Springs Rehabilitation – Area 2 – Castlegate
- Vandiver Rehabilitation
- West Park Equalization Storage Phase I
- West Park Equalization Facility Phase II
- Westchester Drive Rehabilitation
- Whites Creek Wastewater Pumping Station
- Whites Creek Wastewater Treatment Plant (WWTP) Optimization and Disinfection

2.2 CAP/ER Projects under Construction

No CAP/ER projects were under construction during the reporting period.

2.3 CAP/ER Projects under Design

The following projects, discussed in the CAP/ER, were under design or bidding during the reporting period:

- Davidson Branch Pump Station and Equalization Facility

The Davidson Branch Pump Station and Equalization Facility project, referred to as the Davidson Branch Equalization Storage project in the CAP/ER, includes the relocation of an existing duty station and construction of a wastewater storage tank and wet-weather pumping station on a property adjacent to the existing Davidson Branch Pump Station. Design began on May 1, 2015, and is complete. Advertisement for construction is anticipated to occur in the second quarter of 2020.

- Hurricane Creek Pipe Improvements

The Hurricane Creek Pipe Improvements project, as presented in the CAP/ER, consisted of increasing the conveyance capacity of approximately 7,800 linear feet of gravity sewer to meet Metro's capacity assurance requirements. Following the analysis of additional flow monitoring conducted in the spring of 2015, the project's scope was revised to include the design of parallel and/or replacement gravity sewers for approximately 12,100 linear feet of existing gravity trunk sewer. Design began on July 12, 2016, and is complete. Permit and easement acquisition activities are underway and are anticipated to continue through the upcoming quarter.

- Gibson Creek Equalization Facility

The Gibson Creek Equalization Facility project, as presented in the CAP/ER, consists of the design and construction of a 10 million gallon wastewater storage tank and associated wet-weather pumping station. Land acquisition activities were completed during the reporting period. Design began on September 12, 2016, and is complete. Permitting activities are

underway and are anticipated to continue through the upcoming quarter. Advertisement for construction is anticipated to occur in the third quarter of 2020.

- Sevenmile Creek Rehabilitation – Area 1

The Sevenmile Creek Rehabilitation – Area 1 project is the first in a series of rehabilitation projects developed for the Mill Creek watershed and its tributaries. Although not originally included in the projects proposed in the CAP/ER, sewer rehabilitation in the Mill Creek watershed will be performed to reduce wet-weather flows, allowing for a reduced length of conveyance improvements for the Mill Creek Trunk Improvements and Equalization Facility project. The project area to be evaluated for rehabilitation includes approximately 41,200 linear feet of gravity sewer. Design began on July 31, 2018, and is complete. Advertisement for construction is anticipated to occur in the third quarter of 2020.

- Shelby Park Rehabilitation – Area 6 – Shelby Trunk

This rehabilitation project is the sixth in a series of rehabilitation projects to be conducted upstream of the Shelby Park Pump Station. The area to be evaluated for rehabilitation includes approximately 36,200 linear feet of gravity trunk sewer and 130 manholes. Design began on February 6, 2017, and is complete, including coordination with Metro Parks. Permitting activities were completed in December 2017. Advertisement for construction is anticipated to occur in the second quarter of 2020, pending receipt of a State Revolving Fund (SRF) loan.

- Smith Springs Rehabilitation – Area 3 – Harbour Town

The Smith Springs Rehabilitation – Area 3 – Harbour Town project is the third of multiple rehabilitation projects that will be conducted upstream of the Smith Springs Pump Station. The project area to be evaluated for rehabilitation includes over 58,000 linear feet of gravity sewer. Design began on June 5, 2017, and is complete. Advertisement for construction is anticipated to occur in the third quarter of 2020.

2.4 Upcoming CAP/ER Projects

The following projects, discussed in the CAP/ER, are anticipated to begin procurement for design services during the upcoming quarter:

- Mill Creek Trunk Improvements and Equalization Facility

The Mill Creek Trunk Improvements and Equalization Facility project combines two projects presented in the CAP/ER, the Mill Creek Trunk Improvements project and the Mill Creek / Opryland Equalization Facility – Phase III project. Additional analysis of the flow monitoring and condition assessment data of the upstream gravity system indicated that rehabilitation to reduce wet-weather flows may provide a viable option to reduce the extents of the trunk sewer improvements. The resulting project consists of conveyance capacity upgrades of over 3 miles of large diameter sewer, 60 million gallons of additional storage, and a wet-weather pump station with a 100 million gallons per day pumping capacity. Activities associated with the procurement of design services continued in the reporting period, including advertisement for design services in March 2020. Procurement activities are anticipated to continue through the upcoming quarter, and design is anticipated to begin in the third quarter of 2020.

Additionally, Metro intends to deliver this project via a Construction Manager at Risk who will provide pre-construction services during the design phase and act as the general contractor during the construction phase of this project. Advertisement for the Construction Manager at Risk is also anticipated to occur in the second quarter of 2020.

- 28th Avenue Rehabilitation – Area 2 – Batavia Street

The 28th Avenue Rehabilitation – Area 2 – Batavia Street project is the second in a series of rehabilitation projects to be conducted in the 28th Avenue Rehabilitation project area. The area to be evaluated for rehabilitation includes approximately 49,500 linear feet of gravity sewer and 272 manholes. Procurement of design services was initiated during the reporting period, and design is anticipated to begin in the upcoming quarter.

- Cleeces Ferry Rehabilitation – Area 1 – Summerly Drive

The Cleeces Ferry Rehabilitation – Area 1 – Summerly Drive project is the first of two rehabilitation projects to be conducted upstream of the Cleeces Ferry Pump Station. The area to be evaluated for rehabilitation includes approximately 53,100 linear feet of gravity sewer and 299 manholes. Procurement of design services is anticipated to begin in the upcoming quarter.

In addition to the projects listed above, Metro continues to conduct planning activities for multiple Clean Water Nashville projects, including collecting sewer condition assessment data.

2.5 CAP/ER Addendum #2 Projects

As discussed in the *Addendum #2 to the CAP/ER*, Metro recognizes the need to continuously review occurrences of overflows, identify their root causes, and address issues before they become chronic. Through that monitoring process, Metro identified several overflow locations, outside of those initially identified in the CAP/ER, that warrant additional field investigations and/or improvements. Activities associated with those locations, when not associated with a capital project, are described as follows:

- Bordeaux Hills Pump Station

After experiencing an increased frequency of overflows in 2018, the operation of the Bordeaux Hills Pump Station was evaluated, and it was determined that the grinders at the station were potentially causing excessive surcharging during high flow storm events leading to an overflow at the relief pipe. In March 2019, the grinders were removed, and the station has not experienced an overflow since that time. Because the station has not experienced any operational or performance issues with the grinders removed, Metro does not plan to reinstall them. This activity is believed to have addressed the wet-weather overflows previously reported at this location. The station will continue to be monitored as part of Metro's ongoing capacity, management, operations, and maintenance (CMOM) activities.

- Bordeaux Hospital Pump Station

To address the wet-weather overflow occurring at the Bordeaux Hospital Pump Station, the pump impellers were replaced in June 2019, restoring the capacity of the pump station. This is believed to have addressed the wet-weather overflows previously reported at this location. The

station's performance will continue to be monitored as part of Metro's ongoing CMOM activities.

- Fairway Center Pump Station

Because of recent overflows at the Fairway Center Pump Station during wet-weather events, Metro identified the area for additional investigation. An evaluation of the pump station's performance has been completed, and pump impellers were replaced which improved the station's performance. Smoke testing of the gravity sewer upstream of the station was completed in the fall of 2019. Temporary flow monitoring was initiated in January 2020 and is anticipated to continue through April 2020. Review of smoke testing data, available closed-circuit television (CCTV) inspections of the gravity sewer, and flow monitoring data is anticipated to be completed during the third quarter of 2020.

- Farmingham Woods Pump Station

The Farmingham Woods Pump Station was removed from service in July 2019, and the area previously served by the station is now conveyed via a new gravity sewer. This improvement addresses the wet-weather overflows previously observed at the station.

- Hillview Pump Station

Although not historically a location of overflows, numerous wet-weather overflows were observed at the Hillview Pump Station beginning in late 2017. In response to these overflows, smoke testing was conducted in the upstream gravity sewer in October 2018, and manhole inspections along with CCTV inspections of the gravity sewer were conducted in March 2019. Several repairs to address rainfall-derived infiltration and inflow (RDII) were identified, and these were completed in 2019. Concurrently with the investigations of the gravity sewer, the pump station was evaluated and determined to have a reduced pumping capacity. Work to restore the station's capacity has been completed, and the station will continue to be monitored for capacity issues as part of Metro's ongoing CMOM activities.

- Hopedale Pump Station

Although it experienced only one overflow in the decade prior to 2019, there have been three reported overflows at the Hopedale Pump Station through the first half of 2019. Because of the increased frequency of overflows, the station's performance was evaluated, and the station has been determined to be operating as designed. Smoke testing of the gravity sewer upstream of the station was completed, and data collected is being reviewed. Additional investigations to identify and address sources of RDII, such as CCTV inspection of the gravity sewer, may be conducted if issues persist at the station.

- Long Hunter Chase Pump Station

Following an increase in the frequency of wet-weather overflows associated with the Long Hunter Chase Pump Station in 2018, smoke testing was conducted in the upstream gravity sewer in October 2018. Smoke testing revealed that many cleanouts in the area were broken, allowing inflow to enter the system during rainfall events. Repairs of those cleanouts were initiated during the reporting period and are anticipated to be complete in April 2020.

Following completion of that work, the pump station's performance will continue to be monitored as part of Metro's ongoing CMOM activities.

- Mill Creek Pump Station

Because of the increased frequency of overflows in 2018 at the Mill Creek Pump Station, smoke testing of the gravity sewer upstream of the station was conducted in the fall of 2019. Investigations in the area identified that the overflow relief pipe associated with the station was broken, potentially allowing water to enter the sewer during periods of high river stage. Temporary flow monitoring was also initiated in January 2020 and is anticipated to continue through April 2020. The broken overflow relief pipe and other defects identified through smoke testing will be repaired, as needed during 2020, and the station's performance will continue to be monitored.

- Rowan Drive/Cravath Drive

The Rowan Drive / Cravath Drive area, located in the northern portion of the Whites Creek WWTP service area, has experienced numerous rainfall-related overflows. Flow monitoring conducted in 2018 indicated that surcharging in the Rowan / Cravath area is not caused by surcharging in the trunk sewer along Whites Creek. Instead the overflows appear to be caused by either a capacity issue within the local gravity sewer or an excessive amount of RDII entering the system. Metro has installed a level sensor in the area to assess the frequency and extent of surcharging. CCTV inspection of the 10-inch diameter gravity sewer was completed in the summer of 2019, and a review of the data confirmed that the sewer is free of major blockages and significant sources of infiltration. Additional temporary flow monitoring was initiated in January 2020 and is anticipated to continue through April 2020. Following that effort, additional analyses utilizing the hydraulic model will be conducted to confirm that the available capacity is adequate to convey the predicted peak flows in this area and to assess whether the area should be targeted for rehabilitation.

- South Oak Hill Pump Station

Because of the increased frequency of overflows at the South Oak Hill Pump Station during wet-weather events, Metro has identified the area for additional investigation. An evaluation of the pump station's performance has been completed, and the station has been determined to be operating as designed. Smoke testing of the gravity sewer system upstream of the station was completed in the fourth quarter of 2019. Defects identified through those investigations will be repaired, as needed, and additional field investigations will be completed in the upcoming quarter to identify additional potential sources of RDII.

- Sunliner Drive Pump Station

Because of the increased frequency of overflows at the Sunliner Pump Station during wet-weather events, Metro has identified the area for additional investigation. An evaluation of the pump station's performance has been completed, the pump impellers were replaced, and the force main was cleaned in February 2020. Smoke testing of the gravity sewer system upstream of the station was completed in the fourth quarter of 2019. Defects identified through those investigations will be repaired, as needed.

- Wallace Lane / Abbott Martin Road

The Wallace Lane / Abbott Martin Road area is located in Green Hills and is part of the Whites Creek WWTP service area. In early 2019, a customer notified Metro of a potential issue in this area, and Metro has since confirmed that overflows occur at two manholes (116-12-076 and 116-16-040) during wet-weather events. Since notification of the issue, Metro has verified that the sewers in the immediate area are structurally sound and free of blockages that may reduce the sewer's capacity during high flow events. Metro has level sensors installed in the area to assess the frequency and extent of surcharging, and additional temporary flow monitoring was initiated in January 2020 and is anticipated to continue through April 2020. This data will confirm the feasibility of redirecting additional flow from the 8-inch diameter sewer (where the overflows occur) to the parallel 10-inch diameter sewer running along Wallace Lane. If that is not feasible, or does not fully address the overflow, additional field investigation and rehabilitation to address the sources of RDII in the area upstream of the overflows will be conducted.

Section 3

Long Term Control Plan

To reduce the occurrence and impact of combined sewer overflows into the Cumberland River, Metro developed an update to the *Long Term Control Plan* (LTCP), that was submitted to EPA and TDEC on September 11, 2011.

The LTCP followed EPA's *Combined Sewer Overflow Control Policy* in implementing a rigorous process for identifying and evaluating alternatives to reduce combined sewer overflows. Consideration included financial and engineering analyses to develop recommended improvements in conjunction with four key objectives that were established early in the planning process:

- Improve the water quality of the Cumberland River by reducing impacts from combined sewer overflows
- Provide a level of CSO control that results in improvements in water quality that are consistent with the community's use of the Cumberland River
- Align investment in CSO controls to be commensurate with the contribution of CSOs to water quality relative to other sources
- Consider the impact of the overall program cost on the ratepayers in the current economic climate

These goals and objectives were developed based on feedback provided by representatives from Metro, local government, and the community through a public engagement campaign developed to solicit input from affected stakeholders.

On June 18, 2018, Metro presented to EPA and TDEC an *Addendum to the LTCP* which summarizes the updates and modifications to projects described in the LTCP since its submittal in 2011.

In a February 11, 2019, letter, EPA provided review comments to Metro on the LTCP and *Addendum to the LTCP*. Metro submitted a response letter dated March 6, 2019 with a proposal for a path forward.

On February 18, 2020, Metro met with representatives from EPA, TDEC, the U.S. Department of Justice, and the Tennessee Attorney General's office to discuss the path forward for the LTCP approval, among other topics. Those discussions continued through the end of the reporting period and are expected to continue through the upcoming quarter.

As review of the LTCP continues, Metro continues to move forward with the implementation of portions of the LTCP. Active projects are described in the following subsections, and a schedule illustrating current and upcoming work on LTCP projects is presented as Appendix A. Due to the on-going potential impacts of the COVID-19 epidemic, timelines for some projects may require adjustments. In an April 1, 2020, letter, Metro notified EPA and TDEC of the potential need for time extensions due to the force majeure event of the COVID-19 epidemic.

3.1 Completed LTCP Projects

The following projects, discussed in the LTCP, were completed prior to the start of the reporting period:

- Apex Sewer Corrections
- Broadway Improvements
- Driftwood Equalization Basin Expansion
- Sludge Transfer Facility (as part of Central WWTP Capacity Improvements and CSO Reduction)
- Van Buren Improvements
- Washington CSO Facility Improvements

3.2 LTCP Projects under Construction

There are currently no LTCP projects under construction.

3.3 LTCP Projects under Design and Preconstruction

The following project, discussed in the LTCP, is anticipated to continue design services during the upcoming quarter:

- Central WWTP Capacity Improvements and CSO Reduction, A and B

The Central WWTP Capacity Improvements and CSO Reduction project will reduce the overflow frequency and volume from the Kerrigan CSO by increasing both the wet-weather treatment capacity of the Central WWTP and the overall capacity of the Central Pumping Station. The project will also add on-site CSO storage and equalization to assist in managing the dramatic flow rate increases from the combined sewer system during intense rainfall events. This project is the result of the *Central Wastewater Treatment Plant Optimization Study* which was completed in 2014. The study identified limiting factors in each of the Central WWTP's unit processes and confirmed that peak wet-weather secondary treatment capacity could be significantly increased through upgrades to the existing headworks, secondary aeration, final clarification systems, and other facilities without building new tankage. As such, this project replaces the following projects presented in the LTCP:

- CWWTP Optimization and EQ Conversion
- CWWTP EQ Addition Phase 1
- CWWTP Pumps / EQ Grit Equipment
- CWWTP EQ Addition Phase 2
- CWWTP EQ Addition Phase 3

Advertisement for design services for the Central WWTP Capacity Improvements and CSO Reduction project began in January 2015, and two design contracts (A and B) were awarded in April 2015. Following contract negotiations and other designer procurement activities, design

activities for both contracts began on September 21, 2015. The *Basis of Design Report* was finalized in December 2016.

In mid-2017, Metro officially decided to design and construct a single headworks facility that will serve both combined and sanitary influents. This design has been completed by Hazen and Sawyer. The majority of other work at the plant is being designed by Brown and Caldwell. Each firm's notice-to-proceed for detailed design was issued on June 23, 2017. Design for the headworks reached 100 percent in June 2019. Design activities for the remainder of the plant have concluded, and procurement for this package is anticipated to begin in the upcoming quarter.

On March 23, 2017, Metro completed the procurement and contracting of a Construction Manager at Risk to provide pre-construction services during the design phase and to act as the general contractor during the construction phase of this project. Brasfield & Gorrie was selected as the Construction Manager at Risk. Through the reporting period, the Construction Manager at Risk provided input on design efforts, continued to analyze the construction schedule to determine critical path items, and refined construction cost estimates. Brasfield & Gorrie has begun procurement for the headworks package with prequalified firms, and it is expected to conclude in the upcoming quarter.

3.4 Upcoming LTCP Projects

There are currently no LTCP projects anticipated to begin design in the upcoming quarter.

Section 4

Additional Measures to Maintain Consent Decree Compliance

In addition to the CAP/ER and LTCP projects described in the previous sections, the measures described in the following subsections are related to Metro's on-going Consent Decree compliance.

4.1 2017 Annual Rehabilitation – Dry Creek

The 2017 Annual Rehabilitation – Dry Creek project, which is located in the Dry Creek WWTP's service area, consists of the evaluation and rehabilitation of approximately 57,900 linear feet of gravity sewer, ranging in diameter from 8 to 30 inches. These sewers are located outside of CAP/ER rehabilitation areas and include many sewers classified as high priority for evaluation due to observations of infiltration. Design began on March 27, 2017, and was completed in September 2017. Advertisement for construction is anticipated to occur in the fourth quarter of 2020.

4.2 2017 Annual Rehabilitation – Shepherd Hills

The 2017 Annual Rehabilitation – Shepherd Hills project, which is located in the Dry Creek WWTP's service area, consists of approximately 59,900 linear feet of gravity sewer, ranging in diameter from 8 to 30 inches. This project targets sewers located outside of CAP/ER rehabilitation areas and includes many sewers classified as high priority for evaluation due to observations of infiltration. Design began on May 30, 2017, and was completed in October 2017. Advertisement for construction is anticipated to occur in the third quarter of 2020.

Section 5

Quarterly SSO and Dry-Weather CSO Report

During the reporting period, Metro experienced 161 SSOs, as listed in **Table 5-1**.

No dry-weather CSOs occurred during the reporting period.

Table 5-1 Quarterly SSO Report

Quarterly SSO Report January 1 through March 31, 2020									
Event Start Date	Event End Date	Rainfall (inches)	Duration (hours)	Overflow Volume (MG)	Overflow Cause	Location Manhole ID	Location	Unpermitted Discharge	Building Backup
02-Jan-20	05-Jan-20	1.92	62.17	6.025	Rainfall	08410007	149 Barker Rd	Yes	No
02-Jan-20	03-Jan-20	1.64	52.00	1.5	Rainfall	09510050	501 Bismark	Yes	No
02-Jan-20	04-Jan-20	1.74	32.33	0.661	Rainfall	10210012	Davidson Branch SPS	Yes	No
03-Jan-20	04-Jan-20	1.66	31.00	0.6	Rainfall	11907146	431 E Thompson Ln	Yes	No
03-Jan-20	04-Jan-20	1.66	31.00	0.2	Rainfall	11904005	321 Wimpole Dr	Yes	No
03-Jan-20	04-Jan-20	2.03	23.00	0.07	Rainfall	05911027	701 Rowan Dr	No	No
03-Jan-20	03-Jan-20	1.89	4.10	0.01	Rainfall	01416001	Joelton SPS	Yes	No
04-Jan-20	04-Jan-20	1.66	1.00	0.0001	Blockage	11909123	2849 Logan St	Yes	No
06-Jan-20	06-Jan-20	0	6.00	0.0001	Blockage	07009031	3216 Curtis St	Yes	No
07-Jan-20	07-Jan-20	0	4.00	0.0001	Blockage	16112053	5560 Nolensville Rd	Yes	No
10-Jan-20	10-Jan-20	0	2.00	0.001	Blockage	04311068	1040 N Dupont Ave	Yes	No
11-Jan-20	11-Jan-20	1.85	8.42	1.804	Rainfall	09104025	28th Ave SPS / Centennial Blvd	Yes	No
11-Jan-20	11-Jan-20	2.06	5.00	0.02	Rainfall	01416001	Joelton SPS	Yes	No
11-Jan-20	11-Jan-20	1.85	7.25	0.2	Rainfall	07008061	Riverside Dr SPS	Yes	No
11-Jan-20	11-Jan-20	2.16	7.50	0.5	Rainfall	16002032	South Oak Hill SPS	Yes	No
11-Jan-20	11-Jan-20	1.76	2.67	0.197	Rainfall	09105110	West Park SPS	Yes	No
11-Jan-20	11-Jan-20	1.75	2.75	0.028	Rainfall	04312004	Vandiver SPS	Yes	No
11-Jan-20	12-Jan-20	1.85	16.00	0.0001	Rainfall	11616040	4012 Wallace Ln	Yes	No
11-Jan-20	11-Jan-20	1.76	3.08	0.037	Rainfall	09011002	516 Basswood Ave	Yes	No
11-Jan-20	11-Jan-20	1.76	0.58	0.001	Rainfall	05116016	Loves Branch SPS	Yes	No
11-Jan-20	12-Jan-20	1.88	26.00	0.08	Rainfall	05911027	701 Rowan Dr	No	No
11-Jan-20	12-Jan-20	1.79	10.17	1.086	Rainfall	05205001	Gibson Creek SPS	Yes	No
11-Jan-20	11-Jan-20	1.84	2.42	0.059	Rainfall	07114041	Cowan St SPS	Yes	No
11-Jan-20	11-Jan-20	1.78	5.92	0.053	Rainfall	09608006	McCrary Creek SPS	Yes	No
11-Jan-20	13-Jan-20	1.78	28.42	1.013	Rainfall	08410007	149 Barker Rd	Yes	No
11-Jan-20	12-Jan-20	1.64	1.58	0.024	Rainfall	13609002	Smith Springs SPS	Yes	No
11-Jan-20	12-Jan-20	1.76	14.42	0.808	Rainfall	10210012	Davidson Branch SPS	Yes	No
11-Jan-20	12-Jan-20	1.88	27.00	0.08	Rainfall	05915017	3812 Cravath Dr	No	No

Quarterly SSO Report

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Event Start Date	Event End Date	Rainfall (inches)	Duration (hours)	Overflow Volume (MG)	Overflow Cause	Location Manhole ID	Location	Unpermitted Discharge	Building Backup
11-Jan-20	12-Jan-20	1.75	28.00	0.001	Rainfall	11909113	2803 Foster Ave	No	No
11-Jan-20	12-Jan-20	1.64	29.00	0.8	Rainfall	09510050	501 Bismark Dr	Yes	No
14-Jan-20	15-Jan-20	1.14	24.00	0.7	Rainfall	09510050	501 Bismark Dr	Yes	No
14-Jan-20	14-Jan-20	0.98	8.00	0.0001	Rainfall	11616040	4012 Wallace Ln	Yes	No
14-Jan-20	14-Jan-20	1.17	2.75	0.105	Rainfall	09104025	28th Ave SPS / Centennial Blvd	Yes	No
14-Jan-20	15-Jan-20	1.46	19.17	0.861	Rainfall	08410007	149 Barker Rd	Yes	No
14-Jan-20	14-Jan-20	1.29	8.75	0.155	Rainfall	10210012	Davidson Branch SPS	Yes	No
21-Jan-20	22-Jan-20	0	2.50	0.0001	Blockage	14810001	3939 Apache Tr	Yes	No
23-Jan-20	24-Jan-20	0	24.00	0.0001	Force Main	01203001	Springfield Hwy	No	No
23-Jan-20	24-Jan-20	0.88	20.00	0.0001	Blockage	14801043	3709 Turley Dr	No	No
25-Jan-20	29-Jan-20	0	98.00	0.001	Force Main	01215001	0 Springfield Hwy	No	No
27-Jan-20	27-Jan-20	0	1.00	0.0001	Blockage	13204037	2960 Armory Dr	Yes	No
02-Feb-20	02-Feb-20	0	1.00	0.0001	Blockage	10402036	3127 Long Blvd	Yes	No
05-Feb-20	05-Feb-20	1.47	18.00	0.5	Rainfall	09510050	501 Bismark Dr	Yes	No
05-Feb-20	06-Feb-20	1.70	8.00	0.174	Rainfall	10210012	Davidson Branch SPS	Yes	No
05-Feb-20	05-Feb-20	1.69	2.50	0.047	Rainfall	13609002	Smith Springs SPS	Yes	No
06-Feb-20	06-Feb-20	0.94	12.00	0.2	Rainfall	11907146	431 E Thompson Ln	Yes	No
08-Feb-20	08-Feb-20	0	4.00	0.02	Blockage	13308081	837 Reischa Ct	Yes	No
10-Feb-20	11-Feb-20	1.56	24.91	0.347	Rainfall	10210012	Davidson Branch SPS	Yes	No
10-Feb-20	11-Feb-20	1.68	11.09	0.451	Rainfall	05205001	Gibson Creek SPS	Yes	No
10-Feb-20	17-Feb-20	3.34	168.00	5	Rainfall	09510050	501 Bismark Dr	Yes	No
10-Feb-20	12-Feb-20	2.13	45.00	0.8	Rainfall	11907146	431 E Thompson Ln	Yes	No
10-Feb-20	10-Feb-20	1.14	1.00	0.0001	Rainfall	11616040	4012 Wallace Ln	Yes	No
11-Feb-20	11-Feb-20	1.89	6.75	0.4	Rainfall	16002032	South Oak Hill SPS	Yes	No
11-Feb-20	11-Feb-20	1.90	3.50	0.031	Rainfall	09608006	McCrory Creek SPS	Yes	No
11-Feb-20	11-Feb-20	1.80	5.25	0.39	Rainfall	13609002	Smith Springs SPS	Yes	No
11-Feb-20	11-Feb-20	0.71	11.00	0.0001	Rainfall	11616040	4012 Wallace Ln	Yes	No
12-Feb-20	13-Feb-20	1.49	19.08	0.785	Rainfall	05205001	Gibson Creek SPS	Yes	No
12-Feb-20	13-Feb-20	1.76	24.00	0.262	Rainfall	09608006	McCrory Creek SPS	Yes	No

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Event Start Date	Event End Date	Rainfall (inches)	Duration (hours)	Overflow Volume (MG)	Overflow Cause	Location Manhole ID	Location	Unpermitted Discharge	Building Backup
12-Feb-20	14-Feb-20	3.66	42.67	5.491	Rainfall	08601134	Dodson Chapel SPS	Yes	No
12-Feb-20	13-Feb-20	1.60	8.00	0.001	Rainfall	13406029	432 Harding Industrial Dr	Yes	No
12-Feb-20	13-Feb-20	3.44	12.50	0.261	Rainfall	04312004	Vandiver SPS	Yes	No
12-Feb-20	13-Feb-20	1.54	13.33	0.246	Rainfall	10210012	Davidson Branch SPS	Yes	No
12-Feb-20	16-Feb-20	1.91	86.75	1.77	Rainfall	13609002	Smith Springs SPS	Yes	No
12-Feb-20	13-Feb-20	1.60	24.00	0.001	Rainfall	13407003	0 Knight Valley Dr	Yes	No
12-Feb-20	13-Feb-20	1.75	17.00	0.001	Rainfall	10616013	993 Murfreesboro Pk	Yes	No
12-Feb-20	13-Feb-20	1.75	10.00	0.001	Rainfall	10616020	1001 Murfreesboro Pk	Yes	No
12-Feb-20	13-Feb-20	1.75	17.00	0.001	Rainfall	11904005	321 Wimpole Dr	Yes	No
12-Feb-20	13-Feb-20	1.75	24.00	0.001	Rainfall	11908024	992 E Thompson Ln	Yes	No
12-Feb-20	13-Feb-20	1.60	24.00	0.001	Rainfall	12013049	917 Currey Dr	Yes	No
12-Feb-20	13-Feb-20	1.60	24.00	0.001	Rainfall	13406002	520 Harding Industrial Dr	Yes	No
12-Feb-20	13-Feb-20	1.75	17.00	0.001	Rainfall	10612023	0 Murfreesboro Pk	Yes	No
12-Feb-20	13-Feb-20	1.60	8.00	0.001	Rainfall	13407009	0 Murfreesboro Pk	Yes	No
12-Feb-20	13-Feb-20	1.60	8.00	0.001	Rainfall	13407010	0 Murfreesboro Pk	Yes	No
12-Feb-20	13-Feb-20	1.60	8.00	0.001	Rainfall	13412031	5135 Harding Pl	Yes	No
12-Feb-20	15-Feb-20	1.75	66.00	1.2	Rainfall	11907146	431 E Thompson Ln	Yes	No
12-Feb-20	12-Feb-20	1.35	2.00	0.0001	Blockage	10301017	6211 Charlotte Pk	Yes	No
12-Feb-20	12-Feb-20	1.60	2.00	0.00001	Blockage	06115006	3919 Baxter Ave	No	No
12-Feb-20	13-Feb-20	1.34	5.00	0.02	Rainfall	01416001	Joelton SPS	Yes	No
12-Feb-20	13-Feb-20	1.60	8.00	0.001	Rainfall	13406027	520 Harding Industrial Dr	Yes	No
12-Feb-20	13-Feb-20	1.60	24.00	0.001	Rainfall	1340627B	520 Harding Industrial Dr	Yes	No
12-Feb-20	13-Feb-20	1.51	8.75	0.2	Rainfall	07008061	Riverside Dr SPS	Yes	No
12-Feb-20	13-Feb-20	1.60	8.00	0.001	Rainfall	13412030	5135 Harding Pl	Yes	No
12-Feb-20	13-Feb-20	2.31	16.00	1	Rainfall	16002032	South Oak Hill SPS	Yes	No
13-Feb-20	14-Feb-20	1.76	27.50	0.001	Rainfall	08603180	4124 Andrew Jackson Pky	No	No
13-Feb-20	14-Feb-20	1.60	37.00	0.1	Rainfall	06001013	3258 Brick Church Pk	No	No
13-Feb-20	14-Feb-20	1.76	22.00	0.06	Rainfall	08602060	428 Old Lebanon Dirt Rd	No	No
13-Feb-20	14-Feb-20	1.76	22.00	0.03	Rainfall	08603013	428 Old Lebanon Dirt Rd	No	No

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Event Start Date	Event End Date	Rainfall (inches)	Duration (hours)	Overflow Volume (MG)	Overflow Cause	Location Manhole ID	Location	Unpermitted Discharge	Building Backup
13-Feb-20	14-Feb-20	1.51	39.00	0.2	Rainfall	05911027	701 Rowan Dr	No	No
13-Feb-20	14-Feb-20	1.75	34.00	0.6	Rainfall	11907147	0 Glenrose Ave	No	No
13-Feb-20	14-Feb-20	1.76	28.00	0.04	Rainfall	08602059	428 Old Lebanon Dirt Rd	No	No
13-Feb-20	14-Feb-20	1.76	28.00	0.5	Rainfall	08602099	389 Old Lebanon Dirt Rd	No	No
13-Feb-20	14-Feb-20	1.76	28.00	0.04	Rainfall	08602057	428 Old Lebanon Dirt Rd	No	No
13-Feb-20	13-Feb-20	1.54	4.00	0.001	Force Main	10203073	431 Capri Dr	Yes	No
13-Feb-20	14-Feb-20	1.54	36.00	0.7	Force Main	10203057	Cleeces Ferry SPS	Yes	No
13-Feb-20	13-Feb-20	2.09	11.00	0.7	Rainfall	17609035	Hurricane Creek SPS	Yes	No
13-Feb-20	13-Feb-20	1.91	3.00	0.05	Rainfall	15008009	Towne Village SPS	Yes	No
14-Feb-20	14-Feb-20	0	2.00	0.00001	Blockage	10507063	1307 Pillow St	Yes	No
15-Feb-20	15-Feb-20	0	2.00	0.00001	Blockage	04816011	3836 Stevens Ln	No	No
16-Feb-20	16-Feb-20	0	1.00	0.00001	Blockage	10505140	1114 Wade Ave	No	No
19-Feb-20	19-Feb-20	0	2.00	0.00001	Blockage	14409005	4362 Chickering Ln	Yes	No
19-Feb-20	21-Feb-20	0	45.00	0.00001	Line Break	08216010	700 Main St	Yes	No
20-Feb-20	20-Feb-20	0	2.50	0.0001	Blockage	14409005	4362 Chickering Ln	Yes	No
22-Feb-20	22-Feb-20	0	1.50	0.001	Blockage	07311033	2405 Fairbrook Dr	Yes	No
23-Feb-20	23-Feb-20	0	4.00	0.00001	Blockage	14409005	4362 Chickering Ln	No	No
23-Feb-20	23-Feb-20	0	3.00	0.001	Blockage	04914029	577 Green Ln	No	No
24-Feb-20	24-Feb-20	0	1.00	0.00001	Blockage	09114082	5815 Charlotte Pk	Yes	No
28-Feb-20	28-Feb-20	0	2.00	0.0001	Blockage	16108065	500 Ocala Dr	Yes	No
03-Mar-20	03-Mar-20	1.96	12.00	0.001	Rainfall	05911027	701 Rowan Dr	Yes	No
03-Mar-20	03-Mar-20	0.47	6.75	0.583	Rainfall	09409003	Browns Creek SPS / Visco Dr	Yes	No
03-Mar-20	03-Mar-20	1.97	10.17	1.148	Rainfall	05205001	Gibson Creek SPS	Yes	No
03-Mar-20	03-Mar-20	1.97	2.00	0.005	Rainfall	05116016	Loves Branch SPS	Yes	No
03-Mar-20	03-Mar-20	2.01	8.58	0.27	Rainfall	04312004	Vandiver SPS	Yes	No
03-Mar-20	06-Mar-20	1.29	69.08	1.425	Rainfall	08410007	149 Barker Rd	Yes	No
03-Mar-20	03-Mar-20	1.35	0.50	0.01	Electrical	07014003	Fairway Center SPS	Yes	No
03-Mar-20	03-Mar-20	2.81	2.25	0.05	Electrical	05209047	Rainbow Terrace SPS	Yes	No
03-Mar-20	03-Mar-20	1.40	3.50	0.1	Rainfall	07008061	Riverside Dr SPS	Yes	No

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Event Start Date	Event End Date	Rainfall (inches)	Duration (hours)	Overflow Volume (MG)	Overflow Cause	Location Manhole ID	Location	Unpermitted Discharge	Building Backup
03-Mar-20	03-Mar-20	1.27	3.75	0.1	Electrical	08514005	Munn Road SPS	Yes	No
03-Mar-20	03-Mar-20	1.29	8.75	5.036	Rainfall / Force Main	09608006	McCrary Creek SPS	Yes	No
03-Mar-20	03-Mar-20	0.70	10.50	0.2	Air Relief Valve	09611131	627 Paces Ferry Dr	Yes	No
03-Mar-20	03-Mar-20	1.07	12.00	0.001	Rainfall	06001013	3258 Brick Church Pk	Yes	No
04-Mar-20	04-Mar-20	0	4.00	0.0001	Blockage	10513156	2309 12th Ave S	Yes	No
05-Mar-20	06-Mar-20	0	24.00	0.00001	Force Main	11003018	4684 Hessey Rd	Yes	No
05-Mar-20	05-Mar-20	0	4.00	0.001	Blockage	10402035	3120 Belwood St	Yes	No
10-Mar-20	10-Mar-20	0.09	2.00	0.0001	Blockage	08303090	1422 Campbell Cir	Yes	No
11-Mar-20	12-Mar-20	0	22.00	0.00001	Force Main	WMN056G014	1646 Sunset Rd	Yes	No
14-Mar-20	14-Mar-20	0.32	0.50	0.00001	Blockage	13613010	553 Rural Hill Dr	No	No
17-Mar-20	17-Mar-20	0.96	7.50	0.246	Rainfall	10210012	Davidson Branch SPS	Yes	No
17-Mar-20	18-Mar-20	1.82	19.00	0.001	Rainfall	11612076	3600 Abbott Martin Rd	No	No
17-Mar-20	27-Mar-20	4.22	124.91	9.208	Rainfall	08410007	149 Barker Rd	Yes	No
17-Mar-20	18-Mar-20	1.08	19.00	0.001	Rainfall	13103010	2000 Galbraith Dr	No	No
18-Mar-20	18-Mar-20	1.79	2.25	0.01	Rainfall	01416001	Joelton SPS	Yes	No
18-Mar-20	18-Mar-20	1.17	0.58	0.001	Rainfall	05116016	Loves Branch SPS	Yes	No
18-Mar-20	18-Mar-20	0.86	7.08	0.184	Rainfall	10210012	Davidson Branch SPS	Yes	No
20-Mar-20	21-Mar-20	1.32	34.25	2	Rainfall	16002032	South Oak Hill SPS	Yes	No
20-Mar-20	21-Mar-20	2.32	17.00	0.001	Rainfall	05911027	701 Rowan Dr	No	No
20-Mar-20	20-Mar-20	2.41	14.17	1.048	Rainfall	05205001	Gibson Creek SPS	Yes	No
20-Mar-20	20-Mar-20	0.99	8.67	0.167	Rainfall	10210012	Davidson Branch SPS	Yes	No
20-Mar-20	20-Mar-20	2.53	12.58	0.594	Rainfall	04312004	Vandiver SPS	Yes	No
20-Mar-20	20-Mar-20	2.41	3.83	0.086	Rainfall	05116016	Loves Branch SPS	Yes	No
21-Mar-20	21-Mar-20	2.53	1.00	0.02	Controller	05315020	Lakewood SPS	Yes	No
21-Mar-20	21-Mar-20	0	2.00	0.0001	Blockage	04414041	1311 8th St	No	No
23-Mar-20	23-Mar-20	0.79	5.00	0.049	Rainfall	10210012	Davidson Branch SPS	Yes	No
24-Mar-20	24-Mar-20	2.03	4.00	0.1	Rainfall	05315020	Lakewood SPS	Yes	No
24-Mar-20	24-Mar-20	1.66	3.25	0.05	Rainfall	WLS053E058	Langford Farms SPS	Yes	No
24-Mar-20	24-Mar-20	1.99	3.00	0.3	Rainfall	06208003	Hidden Acres SPS	Yes	No

Quarterly SSO Report

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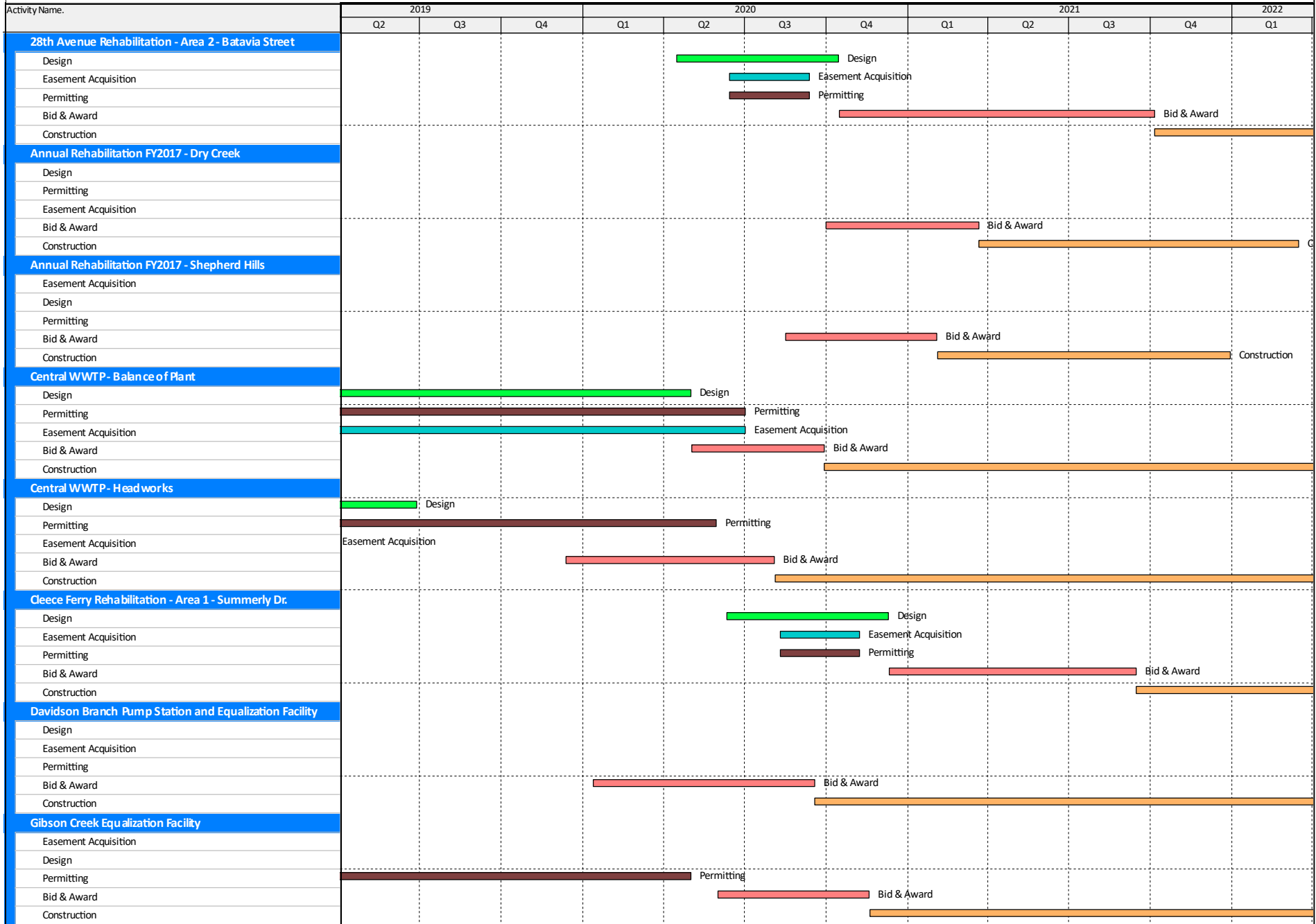
Event Start Date	Event End Date	Rainfall (inches)	Duration (hours)	Overflow Volume (MG)	Overflow Cause	Location Manhole ID	Location	Unpermitted Discharge	Building Backup
24-Mar-20	24-Mar-20	0.95	2.92	0.076	Rainfall	13609002	Smith Springs SPS	Yes	No
24-Mar-20	24-Mar-20	1.44	4.17	0.107	Rainfall	04312004	Vandiver SPS	Yes	No
24-Mar-20	25-Mar-20	1.18	15.75	0.532	Rainfall	10210012	Davidson Branch SPS	Yes	No
24-Mar-20	24-Mar-20	1.81	5.25	0.1	Rainfall	07008061	Riverside Dr SPS	Yes	No
24-Mar-20	24-Mar-20	1.36	1.17	0.002	Rainfall	05116016	Loves Branch SPS	Yes	No
24-Mar-20	25-Mar-20	1.35	8.00	0.5	Rainfall	16002032	South Oak Hill SPS	Yes	No
24-Mar-20	25-Mar-20	1.36	7.08	0.463	Rainfall	05205001	Gibson Creek SPS	Yes	No
24-Mar-20	25-Mar-20	1.19	22.00	0.0001	Rainfall	11616040	4012 Wallace Ln	Yes	No
24-Mar-20	26-Mar-20	1.15	30.00	0.001	Rainfall	11907146	431 E Thompson Ln	Yes	No
24-Mar-20	26-Mar-20	1.09	34.00	1	Rainfall	09510050	501 Bismark Dr	Yes	No
24-Mar-20	25-Mar-20	1.34	15.00	0.0001	Rainfall	04111008	1204 Darbytown Dr	No	No
24-Mar-20	25-Mar-20	1.09	6.42	0.18	Rainfall	09608006	McCrary Creek SPS	Yes	No
24-Mar-20	24-Mar-20	1.82	5.25	0.02	Rainfall	01416001	Joelton SPS	Yes	No
27-Mar-20	27-Mar-20	0	1.00	0.00001	Blockage	13514107	1704 Olive Cir	Yes	No
27-Mar-20	27-Mar-20	0	2.00	0.00001	Blockage	10705015	726 Patricia Dr	No	No
29-Mar-20	29-Mar-20	0.38	2.00	0.0001	Blockage	10713022	1019 Patricia Dr	No	No
30-Mar-20	30-Mar-20	0.64	5.00	0.001	Blockage	06009011	0 Brick Church Pk	Yes	No

Appendix A

Schedule for Current and Upcoming Projects

Note: The construction activity is through substantial completion.

Nashville Overflow Abatement Program 2020 Quarterly Progress Report - 1st Quarter



Note: The construction activity is through substantial completion.

Nashville Overflow Abatement Program 2020 Quarterly Progress Report - 1st Quarter

